

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: 21114533
WAG-6

The truss drawing(s) referenced below have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by The Building Center.

Pages or sheets covered by this seal: I48882258 thru I48882283

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



November 22, 2021

Sevier, Scott

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job 21114533	Truss A1	Truss Type PIGGYBACK BASE	Qty 5	Ply 1	WAG-6	148882258
-----------------	-------------	------------------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:32 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzzss6w-ynMMOdHEjnw7cro8bdvtLsKhk_u0?AvQqyWxZjyHhIL

0-10-8	8-1-12	15-0-6	21-11-0	28-2-9	34-6-3	40-9-12	45-5-8	50-1-4	57-1-4	62-8-12	63-8-12
0-10-8	8-1-12	6-10-10	6-10-10	6-3-9	6-3-9	6-3-9	4-7-12	4-7-12	7-0-0	5-7-8	1-0-0

Scale = 1:109.0

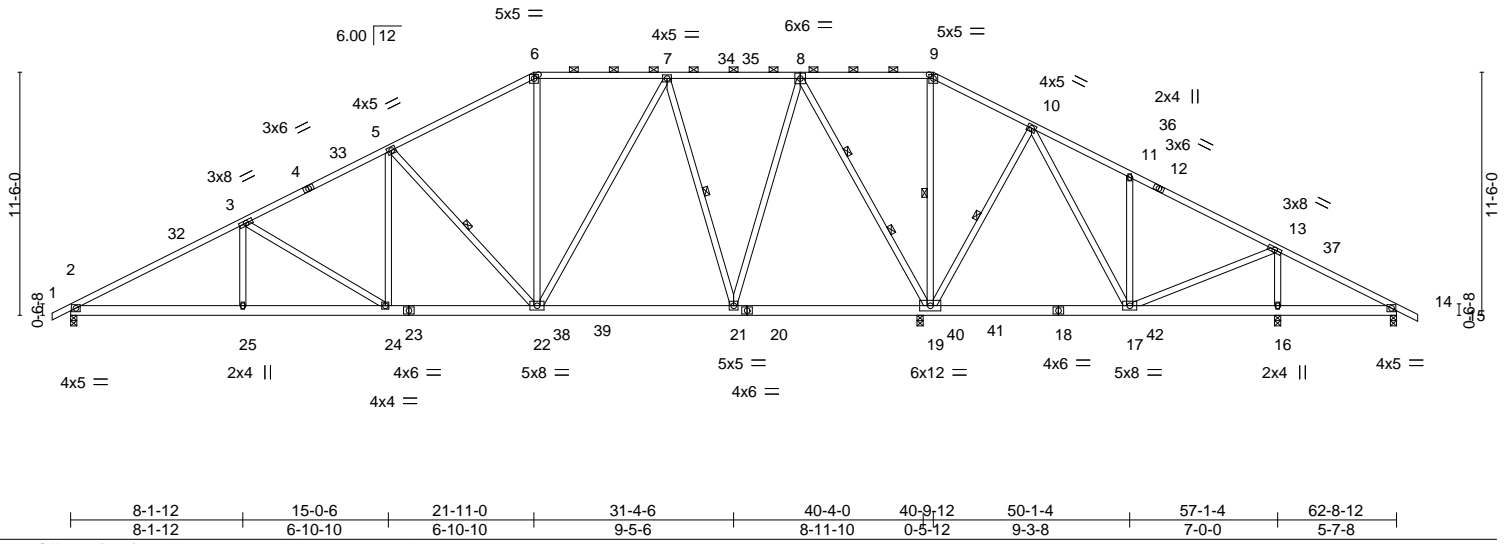


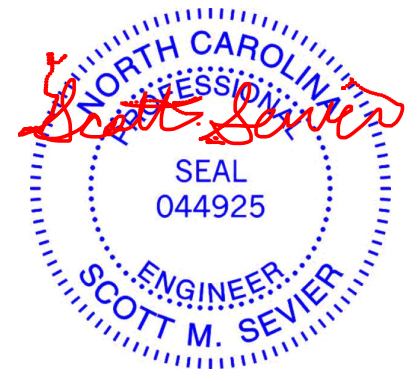
Plate Offsets (X,Y)--	[6:0-2-8,0-2-4], [9:0-2-8,0-2-4]				
LOADING (psf)	SPACING 2-0-0	CSI	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.13 21-22 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.22 21-22 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.85	Horz(CT) 0.05 19 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH			Weight: 448 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (4-11-6 max.): 6-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 7-22,8-19: 2x4 SP DSS	WEBS 1 Row at midpt 5-22, 7-21, 9-19, 10-19, 2 Rows at 1/3 pts 8-19

REACTIONS. All bearings 0-3-8 except (jt=length) 19=0-4-5 (input: 0-3-8).
 (lb) - Max Horz 2=171(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=193(LC 10), 19=202(LC 7), 16=206(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=1434(LC 21), 19=3670(LC 2), 16=755(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2503/412, 3-5=-1982/390, 5-6=-1383/355, 6-7=-1164/365, 7-8=-464/233, 8-9=-9/1027, 9-10=-51/1190, 10-11=-68/549, 11-13=-108/562
 BOT CHORD 2-25=-341/2162, 24-25=-341/2162, 22-24=-173/1704, 21-22=-65/826, 19-21=-122/252, 17-19=-768/285
 WEBS 3-25=0/315, 3-24=-640/196, 5-24=-32/507, 5-22=-830/255, 6-22=0/313, 7-22=-146/866, 7-21=-1104/271, 8-21=-171/1578, 8-19=-2121/377, 9-19=-768/150, 10-19=-642/238, 10-17=-135/772, 11-17=-364/200, 13-17=-373/120, 13-16=-589/249

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 5-4-12, Interior(1) 5-4-12 to 13-0-9, Exterior(2) 13-0-9 to 30-9-7, Interior(1) 30-9-7 to 31-11-5, Exterior(2) 31-11-5 to 49-8-3, Interior(1) 49-8-3 to 57-5-8, Exterior(2) 57-5-8 to 63-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - WARNING:** Required bearing size at joint(s) 19 greater than input bearing size.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=193, 19=202, 16=206.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such Connection device(s) is the responsibility of others.



November 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-6	I48882258
21114533	A1	PIGGYBACK BASE	5	1		
						Job Reference (optional)

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:32 2021 Page 2
 ID:5rgN_xy4f48WjeyOz?elXzzss6w-ynMMOdHEjnw7cr0b8dvtLsKhk_u0?AvQqyWxZjyHhIL

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-6=-60, 6-9=-60, 9-15=-60, 26-29=-20
- Concentrated Loads (lb)
 - Vert: 13=-224

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	WAG-6	148882259
-----------------	---------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:37 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzss6w-JkAFRKLNYJPicuZxAV22w2kR?fegc29_EDiEwyHhIG

-0-10-8 21-11-0 40-9-12 62-8-12 63-8-12
 0-10-8 21-11-0 18-10-12 21-11-0 1-0-0

Scale = 1:109.0

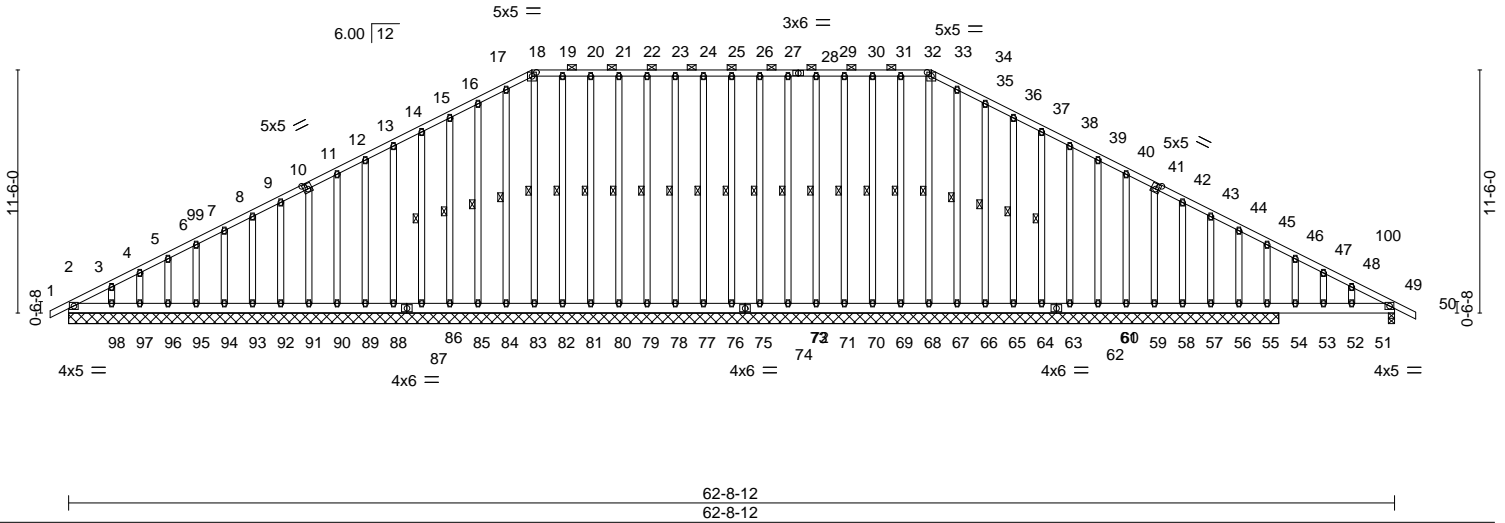


Plate Offsets (X,Y)-- [10:0-2-8,0-3-0], [18:0-2-8,0-2-4], [33:0-2-8,0-2-4], [41:0-2-8,0-3-0]

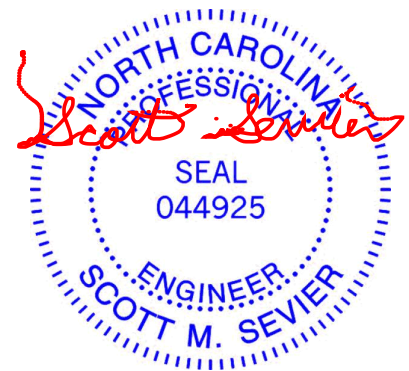
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.10	Vert(LL)	0.02 51-52	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	-0.02 51-52	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01 49	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-SH					Weight: 737 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 18-33.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt

REACTIONS. All bearings 57-3-0 except (jt=length) 49=0-3-8.
 (lb) - Max Horz 2=171(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 75, 76, 77, 78, 79, 80, 81, 83, 84, 85, 86, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 73, 72, 71, 70, 69, 68, 66, 65, 64, 63, 61, 60, 59, 58, 57, 56 except 55=200(LC 22), 54=187(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 73, 72, 71, 70, 69, 68, 67, 66, 65, 64, 63, 61, 60, 59, 58, 57, 56, 55 except 49=276(LC 1), 54=572(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-254/62, 15-16=-87/259, 16-17=-98/307, 17-18=-104/341, 18-19=-94/327, 19-20=-94/327, 20-21=-94/327, 21-22=-94/327, 22-23=-94/327, 23-24=-94/327, 24-25=-94/327, 25-26=-94/327, 26-27=-94/327, 27-29=-94/327, 29-30=-94/327, 30-31=-94/327, 31-32=-94/327, 32-33=-94/327, 33-34=-104/341, 34-35=-98/307, 35-36=-87/259
 BOT CHORD 2-98=-49/253, 97-98=-49/253, 96-97=-49/253, 95-96=-49/253, 94-95=-49/253, 93-94=-49/253, 92-93=-49/253, 91-92=-49/253, 90-91=-50/254, 89-90=-50/254, 88-89=-50/254, 86-88=-50/254, 85-86=-50/254, 84-85=-50/254, 83-84=-50/254, 82-83=-50/254, 81-82=-50/253, 80-81=-50/253, 79-80=-50/253, 78-79=-50/253, 77-78=-50/253, 76-77=-50/253, 75-76=-50/253, 73-75=-50/253, 72-73=-50/253, 71-72=-50/253, 70-71=-50/253, 69-70=-50/253, 68-69=-50/253, 67-68=-50/253, 66-67=-50/254, 65-66=-50/254, 64-65=-50/254, 63-64=-50/254, 61-63=-50/254, 60-61=-50/254, 59-60=-50/254, 58-59=-50/254, 57-58=-49/253, 56-57=-49/253, 55-56=-49/253, 54-55=-49/253, 53-54=-49/253, 52-53=-49/253, 51-52=-49/253, 49-51=-49/253

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 5-4-12, Exterior(2) 5-4-12 to 15-4-6, Corner(3) 15-4-6 to 28-2-4, Exterior(2) 28-2-4 to 34-6-8, Corner(3) 34-6-8 to 47-4-6, Exterior(2) 47-4-6 to 57-5-8, Corner(3) 57-5-8 to 63-8-12 zone; cantilever left and right exposed
 Connections and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33



November 22, 2021

Job 21114533	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	WAG-6 Job Reference (optional)	I48882259
-----------------	---------------	---------------------	----------	----------	-----------------------------------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:38 2021 Page 2
ID:5rgN_xy4f48WjeyOz?elXzss6w-nxjeegM?JdgGKmTIVt0Ha7avAP?tP3IIcuzGmNyHhIF

NOTES-

- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) **WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 1-4-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 75, 76, 77, 78, 79, 80, 81, 83, 84, 85, 86, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 73, 72, 71, 70, 69, 68, 66, 65, 64, 63, 61, 60, 59, 58, 57, 56 except (jt=lb) 55=200, 54=187.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



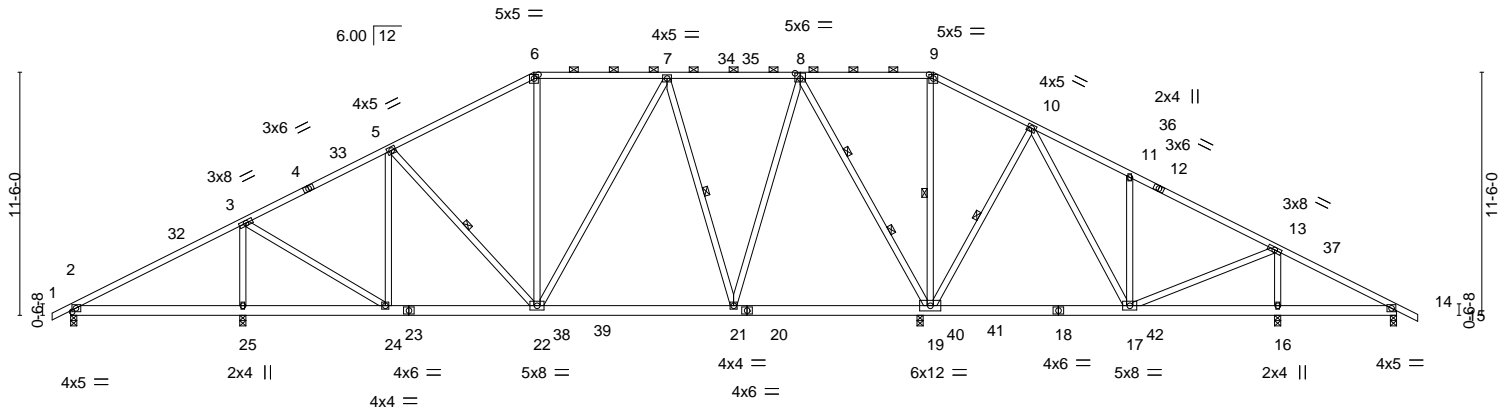
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss A2	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	WAG-6	148882260
-----------------	-------------	------------------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:40 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?eiXzzss6w-jJrO3MNFReW_Z3d7cl2lgYg5ZDdfmSbgCSMrFyHhID

0-10-8	8-1-12	15-0-6	21-11-0	28-2-9	34-6-3	40-9-12	45-5-8	50-1-4	57-1-4	62-8-12	63-8-12
0-10-8	8-1-12	6-10-10	6-10-10	6-3-9	6-3-9	6-3-9	4-7-12	4-7-12	7-0-0	5-7-8	1-0-0

Scale = 1:109.0



8-0-0	8-1-12	15-0-6	21-11-0	31-4-6	40-4-0	40-9-12	50-1-4	57-1-4	62-8-12
8-0-0	0-1-12	6-10-10	6-10-10	9-5-6	8-11-10	0-5-12	9-3-8	7-0-0	5-7-8

Plate Offsets (X,Y)-- [2:0-2-3,0-2-0], [6:0-2-8,0-2-4], [8:0-3-0,0-3-0], [9:0-2-8,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.75	Vert(LL) -0.09	21-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.15	21-22	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.95	Horz(CT) 0.02	19	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH						
							Weight: 448 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-12 oc purlins, except 2-0-0 oc purlins (5-6-5 max.); 6-9.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-22, 7-21, 9-19, 10-19
 2 Rows at 1/3 pts 8-19

REACTIONS.

All bearings 0-3-8.
 (lb) - Max Horz 2=-171(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 25=-215(LC 10), 19=-189(LC 6), 16=-197(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 14 except 2=326(LC 21), 25=1683(LC 23), 19=2750(LC 2), 16=965(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 3-5=-1104/263, 5-6=-1145/321, 6-7=-950/334, 7-8=-678/265, 8-9=0/419, 9-10=0/494, 10-11=-292/204, 11-13=-317/93
 BOT CHORD 22-24=-72/961, 21-22=-71/891, 19-21=-26/481
 WEBS 3-25=-1445/285, 3-24=-99/1124, 5-24=-407/128, 7-22=-71/317, 7-21=-591/193, 8-21=-93/1051, 8-19=-1538/291, 9-19=-471/103, 10-19=-536/222, 10-17=-134/590, 11-17=-365/200, 13-16=-798/240

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-10-8 to 5-4-12, Interior(1) 5-4-12 to 13-0-9, Exterior(2) 13-0-9 to 30-9-7, Interior(1) 30-9-7 to 31-11-5, Exterior(2) 31-11-5 to 49-8-3, Interior(1) 49-8-3 to 57-5-8, Exterior(2) 57-5-8 to 63-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 25=215, 19=189, 16=197.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	WAG-6	I48882260
21114533	A2	PIGGYBACK BASE	2	1	Job Reference (optional)	

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:40 2021 Page 2
 ID:5rgN_xy4f48WjeyOz?eiXzzss6w-jJrO3MNFrEw_Z3d7cl2lgYg5ZDdfmSbgCSMrFyHhID

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-6=-60, 6-9=-60, 9-15=-60, 26-29=-20
- Concentrated Loads (lb)
 - Vert: 13=-224

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**

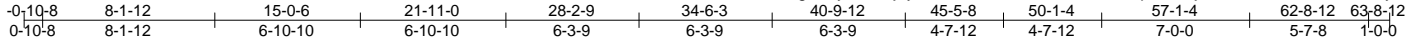
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss A3	Truss Type PIGGYBACK BASE	Qty 3	Ply 1	WAG-6	48882261
-----------------	-------------	------------------------------	----------	----------	-------	----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:42 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?eiXzzss6w-fiz8U2PWNsAipNnWkj5DlZrZ0IWLh7u7WxTv8yHhIB



Scale = 1:109.0

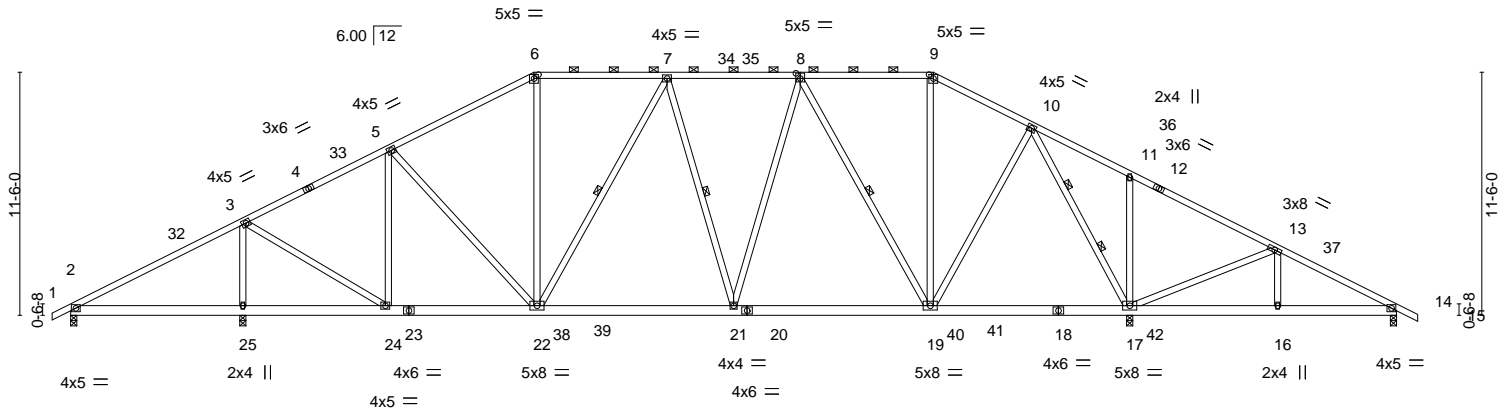


Plate Offsets (X,Y)--	[6:0-2-8,0-2-4], [8:0-2-8,0-3-0], [9:0-2-8,0-2-4]
-----------------------	---

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.69	Vert(LL)	-0.13 21-22	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.44	Vert(CT)	-0.23 21-22	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.04 17	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-MSH					Weight: 448 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except 2-0-0 oc purlins (4-2-2 max.): 6-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 7-22, 7-21, 8-19 2 Rows at 1/3 pts 10-17

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=172(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 14 except 25=234(LC 10), 17=251(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) except 2=260(LC 21), 25=2306(LC 2), 17=2769(LC 2), 14=367(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-79/363, 3-5=-1531/338, 5-6=-1813/436, 6-7=-1551/438, 7-8=-1726/445, 8-9=-1147/353, 9-10=-1330/358, 10-11=0/478, 11-13=-84/516, 13-14=-319/122
 BOT CHORD 2-25=-253/148, 24-25=-253/148, 22-24=-93/1319, 21-22=-138/1728, 19-21=-116/1596, 17-19=0/676
 WEBS 3-25=-2056/388, 3-24=-207/1766, 5-24=-749/186, 5-22=-56/453, 6-22=-23/484, 7-22=-454/149, 8-21=-6/510, 8-19=-946/189, 9-19=-24/357, 10-19=-71/1081, 10-17=-2175/360, 11-17=-379/202, 13-17=-618/198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 5-4-12, Interior(1) 5-4-12 to 13-0-9, Exterior(2) 13-0-9 to 30-9-7, Interior(1) 30-9-7 to 31-11-5, Exterior(2) 31-11-5 to 49-8-3, Interior(1) 49-8-3 to 57-5-8, Exterior(2) 57-5-8 to 63-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - WARNING:** This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14 except (jt=lb) 25=234, 17=251.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss A4	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	WAG-6	148882262
The Building Center, Gastonia, NC - 28052,		8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:44 2021 Page 1				

ID:5rgN_xy4f48WjeyOz?elXzzss6w-c45vvjQmVTRQ2hvvv87hqQqkkqmpZ8BbqQa_0yHnl9

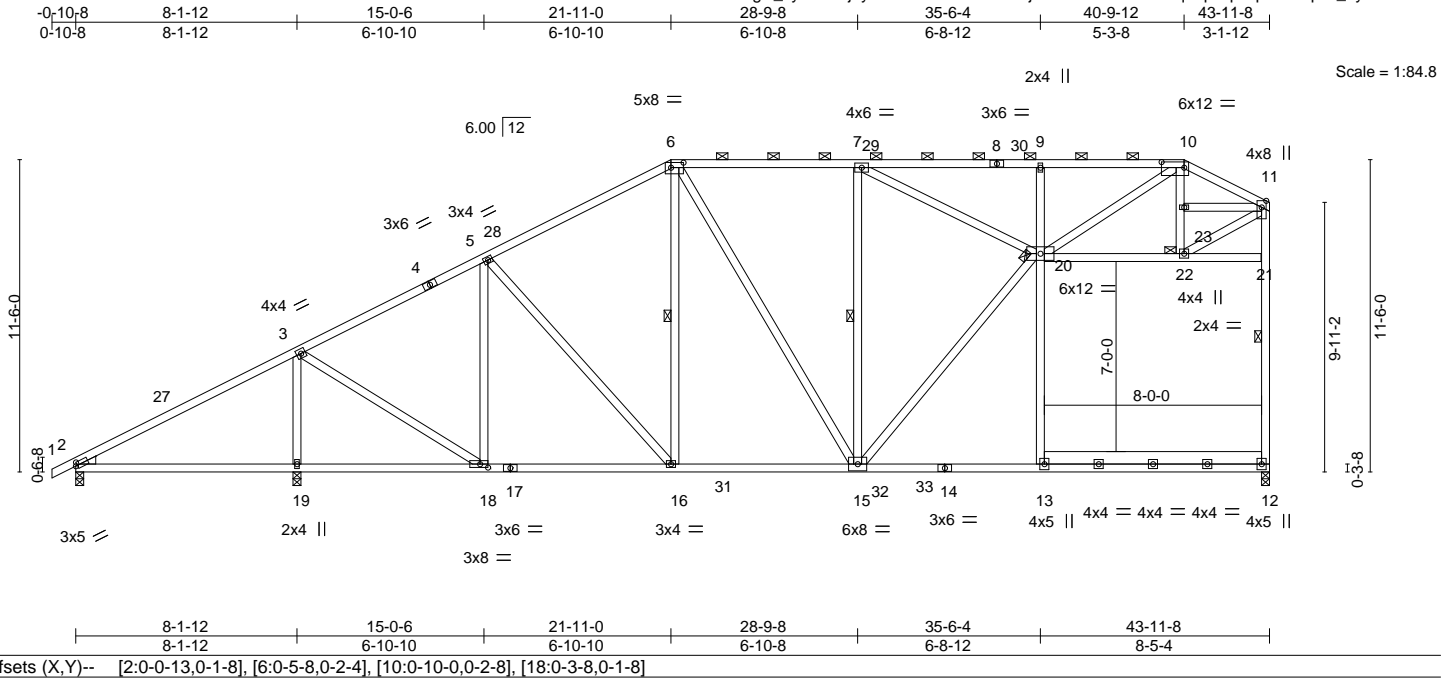


Plate Offsets (X,Y)-- [2:0-0-13,0-1-8], [6:0-5-8,0-2-4], [10:0-10-0,0-2-8], [18:0-3-8,0-1-8]

LOADING (psf)	SPACING	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.86	Vert(LL) -0.24	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.71	Vert(CT) -0.40	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.03	2	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS					Weight: 342 lb	FT = 20%

LUMBER-

- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2 *Except*
12-13: 2x6 SP No.1
- WEBS 2x4 SP No.3 *Except*
11-12: 2x4 SP No.1
- WEDGE
Left: 2x4 SP No.3

BRACING-

- TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-9-4 max.): 6-10.
- BOT CHORD Rigid ceiling directly applied.
- WEBS 1 Row at midpt 6-16, 7-15, 11-12
- JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS.

- (size) 2=0-3-8, 19=0-3-8, 12=0-3-8
- Max Horz 2=361(LC 10)
- Max Uplift 2=-76(LC 24), 19=-232(LC 10), 12=-167(LC 7)
- Max Grav 2=227(LC 21), 19=2153(LC 2), 12=1695(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- TOP CHORD 2-3=-161/515, 3-5=-1238/173, 5-6=-1440/269, 6-7=-1301/276, 7-9=-3183/551, 9-10=-3195/554, 10-11=-1501/307, 11-12=-1491/311
- BOT CHORD 2-19=-435/54, 18-19=-435/54, 16-18=-256/1029, 15-16=-233/1218
- WEBS 3-19=-1966/362, 3-18=-176/1605, 5-18=-627/167, 5-16=-83/383, 6-15=-103/266, 7-15=-1309/297, 13-20=0/458, 9-20=-368/152, 20-22=-227/1219, 22-23=-771/143, 10-23=-777/144, 10-20=-317/2332, 15-20=-331/1973, 7-20=-308/2107, 11-22=-266/1429

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-4, Interior(1) 3-6-4 to 15-8-6, Exterior(2) 15-8-6 to 28-1-10, Interior(1) 28-1-10 to 34-7-2, Exterior(2) 34-7-2 to 43-9-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 19=232, 12=167.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss A5	Truss Type PIGGYBACK BASE	Qty 2	Ply 1	WAG-6	148882263
-----------------	-------------	------------------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:45 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzzss6w-4HfH63ROfnZHgrV5PrewNcNvrEEzY0vKpU97WtYHhI8

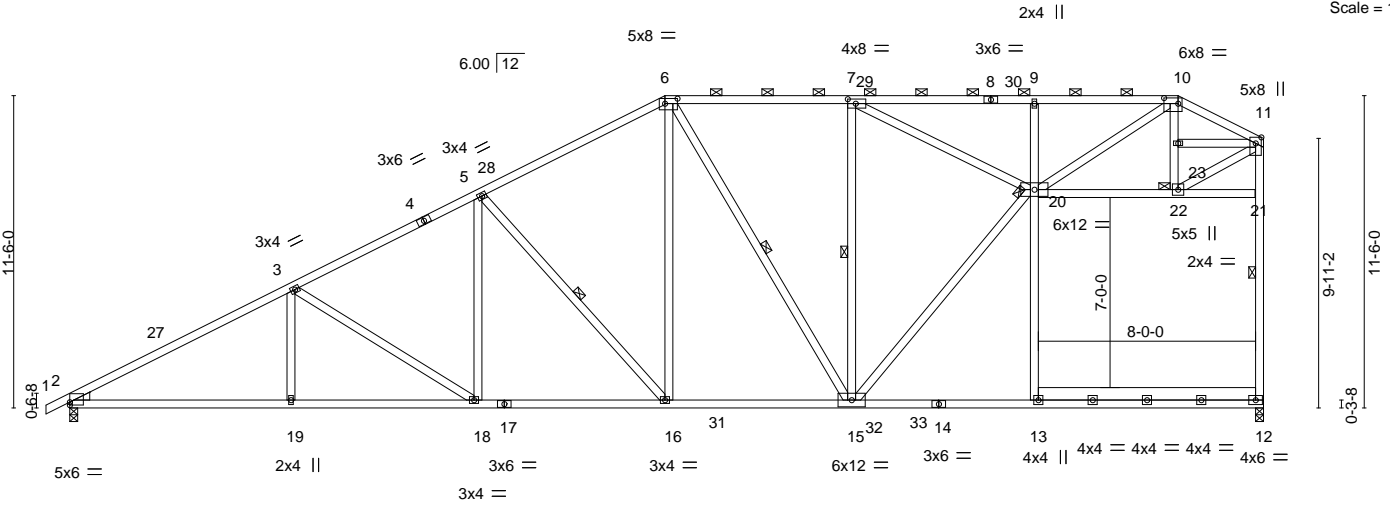


Plate Offsets (X,Y)-- [2:0-0-0,0-1-5], [6:0-5-8,0-2-4], [7:0-3-8,0-2-0], [10:0-6-4,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) -0.35	16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.60	16-18	>882	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 1.00	Horz(CT) 0.11	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS					Weight: 342 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.1 *Except*
 12-13: 2x6 SP No.1, 12-14: 2x4 SP No.2
 WEBS 2x4 SP No.3 *Except*
 11-12: 2x4 SP DSS, 10-20,15-20,7-20: 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 6-10.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 5-16, 6-15, 7-15, 11-12
 JOINTS 1 Brace at Jt(s): 20, 22

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=361(LC 10)
 Max Uplift 2=-209(LC 10), 12=-199(LC 7)
 Max Grav 2=1849(LC 2), 12=2095(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3358/405, 3-5=-2898/407, 5-6=-2304/392, 6-7=-1839/352, 7-9=-4144/687, 9-10=-4158/691, 10-11=-1905/364, 11-12=-1884/367
 BOT CHORD 2-19=-565/2911, 18-19=-565/2911, 16-18=-468/2526, 15-16=-343/1999
 WEBS 3-19=0/279, 3-18=-568/193, 5-18=-32/509, 5-16=-817/249, 6-16=-115/937, 6-15=-360/146, 7-15=-1525/322, 13-20=0/447, 9-20=-364/152, 20-22=-273/1550, 22-23=-981/173, 10-23=-988/174, 10-20=-422/3071, 15-20=-447/2791, 7-20=-375/2580, 11-22=-321/1818

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-4, Interior(1) 3-6-4 to 15-8-6, Exterior(2) 15-8-6 to 28-1-10, Interior(1) 28-1-10 to 34-7-2, Exterior(2) 34-7-2 to 43-9-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 12=199.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 22, 2021

Job 21114533	Truss A5GE	Truss Type GABLE	Qty 1	Ply 1	WAG-6	148882264
-----------------	---------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:49 2021 Page 1
ID:5rgN_xy4f48WjeyOz?eiXzzss6w-y2uoyRUvj?3i9SpsehjsXSyoArncUJzwwk67LFEyHhI4

0-10-8 21-11-0 40-9-12 43-11-8
0-10-8 21-11-0 18-10-12 3-1-12

Scale = 1:75.7

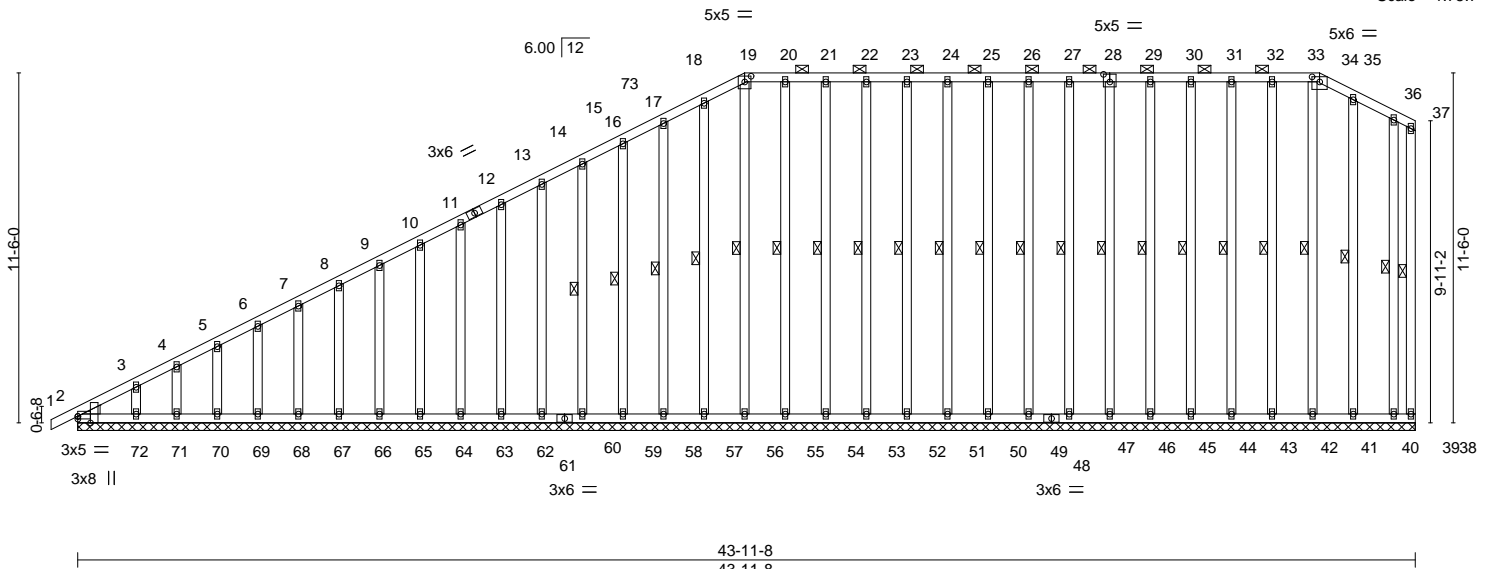


Plate Offsets (X,Y)-- [2:0-0-0,0-1-1], [2:0-2-9,Edge], [19:0-2-8,0-2-4], [28:0-2-8,0-3-0], [34:0-3-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00	38	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 551 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 19-34.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 37-38, 28-46, 27-47, 26-49, 25-50, 24-51, 23-52, 22-53, 21-54, 20-55, 19-56, 18-57, 17-58, 16-59, 15-60, 29-45, 30-44, 31-43, 32-42, 33-41, 35-40, 36-39

REACTIONS.

All bearings 43-11-8.
(lb) - Max Horz 2=362(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 38, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 45, 44, 43, 42, 41, 40, 39
Max Grav All reactions 250 lb or less at joint(s) 2, 38, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 45, 44, 43, 42, 41, 40, 39

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-459/153, 3-4=-372/124, 4-5=-338/117, 5-6=-310/107, 6-7=-282/97, 7-8=-253/87

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-3-0, Exterior(2) 3-3-0 to 17-6-4, Corner(3) 17-6-4 to 26-3-12, Exterior(2) 26-3-12 to 36-5-0, Corner(3) 36-5-0 to 43-9-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 38, 46, 47, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 45, 44, 43, 42, 41, 40, 39.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



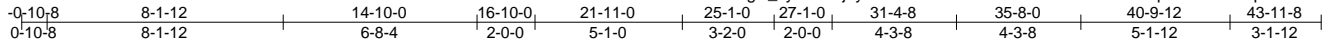
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss A5T	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	WAG-6	148882265
-----------------	--------------	------------------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:52 2021 Page 1

ID:5rgN_xy4f48WjeyOz?eIXzss6w-NdawbTXn0wRH0vYRJPgZ9496J2bphDIMQ3M?GZyHh1



Scale = 1:79.5

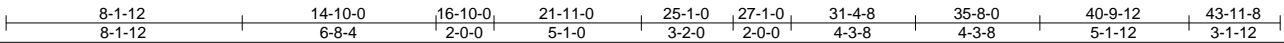
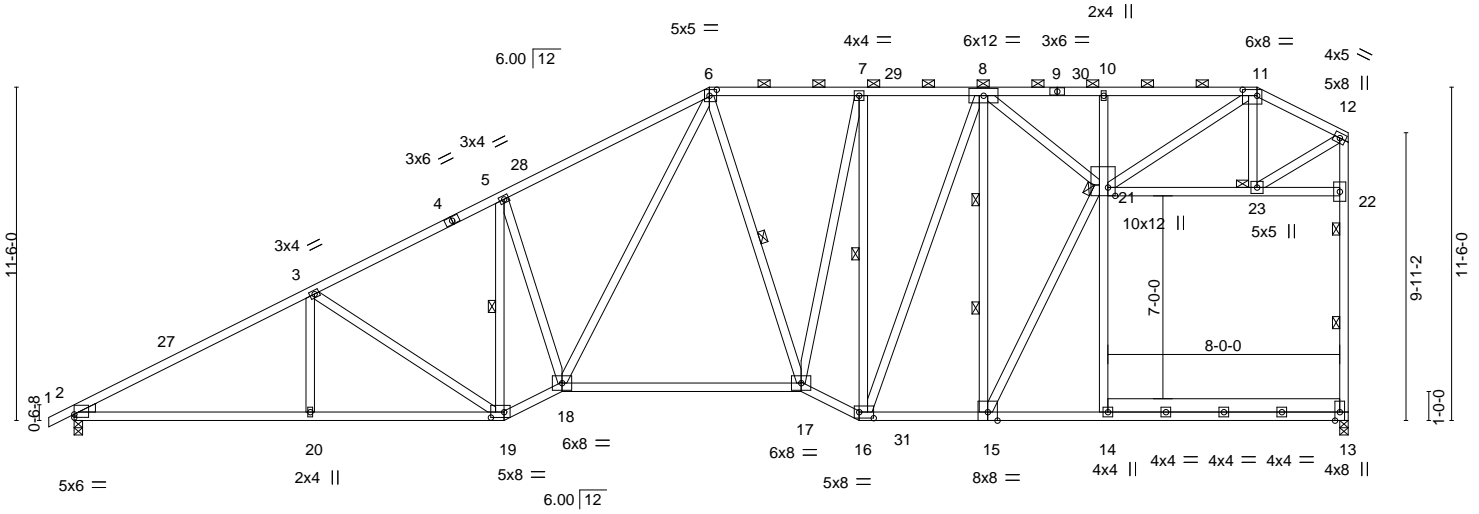


Plate Offsets (X,Y)-- [2:0-0,0-1-5], [6:0-3,0,0-2-8], [11:0-6,0,0-2-8], [16:0-6,0,0-2-8], [19:0-5,8,0-2-4], [21:0-3,7,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.51	17-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.95	Vert(CT) -0.90	17-18	>586	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.86	Horz(CT) 0.16	13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS						
							Weight: 373 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2 *Except*
 2-19,17-18: 2x4 SP No.1, 13-14: 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 7-16,10-14,8-15: 2x4 SP DSS, 12-13: 2x4 SP No.1
 11-21,15-21,8-21: 2x4 SP No.2

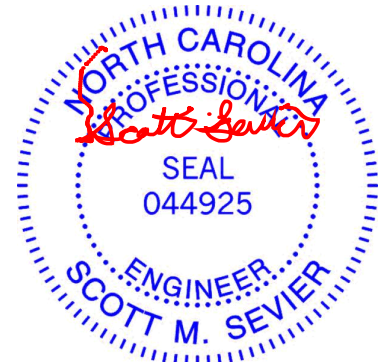
WEDGE
 Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 13=0-3-8
 Max Horz 2=361(LC 10)
 Max Uplift 2=209(LC 10), 13=199(LC 7)
 Max Grav 2=1806(LC 1), 13=2049(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3253/402, 3-5=-2784/413, 5-6=-2962/534, 6-7=-2060/407, 7-8=-1821/369,
 8-10=-3949/686, 10-11=-3967/689, 11-12=-1729/352, 13-22=-1813/368, 12-22=-1813/367
 BOT CHORD 2-20=-562/2817, 19-20=-562/2817, 18-19=-526/2732, 17-18=-385/2069, 16-17=-339/2058,
 15-16=-258/1600
 WEBS 3-20=0/293, 3-19=-552/179, 5-19=-931/206, 5-18=-43/578, 7-17=-204/1257,
 7-16=-1462/304, 6-18=-254/1124, 14-21=0/321, 10-21=-289/126, 21-23=-270/1443,
 11-23=-1031/185, 11-21=-421/2940, 8-15=-2688/513, 15-21=-541/3334, 8-21=-482/3051,
 8-16=-147/629, 12-23=-338/1889

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-4, Interior(1) 3-6-4 to 15-8-6, Exterior(2) 15-8-6 to 28-1-10, Interior(1) 28-1-10 to 34-7-2, Exterior(2) 34-7-2 to 43-9-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 13=199.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

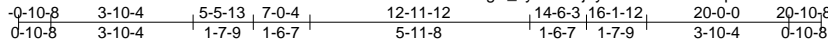
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss B1	Truss Type ATTIC	Qty 5	Ply 1	WAG-6	148882266
-----------------	-------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:53 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzss6w-rp7looXPnEZ8d36dtXnohliioS?9QoDWfj5Yo?yHh10



Scale = 1:62.4

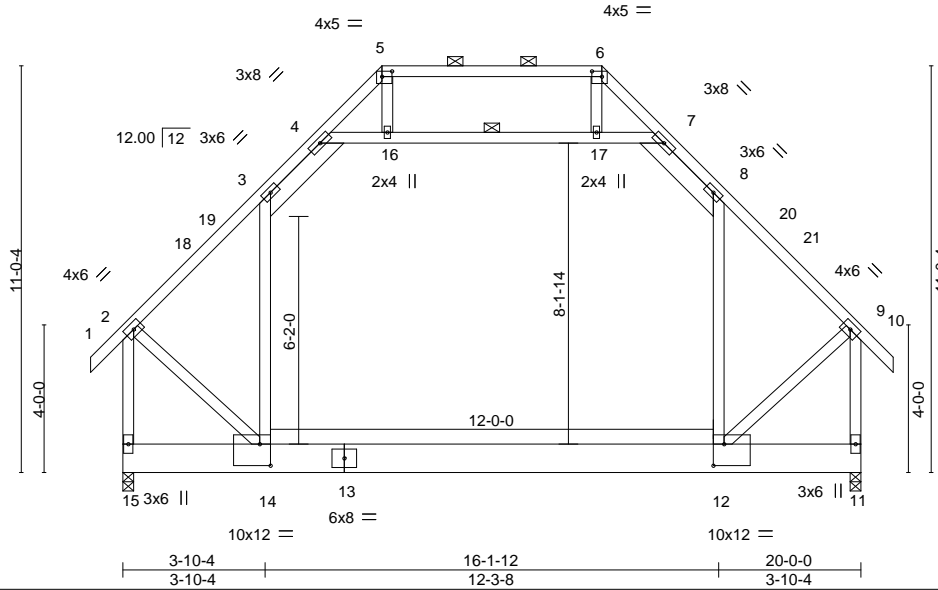


Plate Offsets (X,Y)-- [5:0-3-4,0-1-12], [6:0-3-4,0-1-12], [12:0-3-8,0-7-0], [14:0-3-8,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.18	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.23	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Attic -0.13	12-14	1099	360		
							Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
 3-4,7-8: 2x6 SP No.1
 BOT CHORD 2x10 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-14,9-12,5-16,6-17: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-7

REACTIONS.

(size) 15=0-3-8, 11=0-3-8
 Max Horz 15=-175(LC 8)
 Max Uplift 15=-24(LC 10), 11=-24(LC 11)
 Max Grav 15=1171(LC 2), 11=1171(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-946/112, 3-4=-669/179, 4-5=-452/117, 5-6=-322/90, 6-7=-452/117, 7-8=-669/179,
 8-9=-946/112, 2-15=-1342/109, 9-11=-1342/109
 BOT CHORD 12-14=-28/616
 WEBS 3-14=-195/392, 4-16=-569/148, 16-17=-564/150, 7-17=-569/148, 8-12=-195/392,
 2-14=-50/822, 9-12=-50/822

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-5, Exterior(2) 2-9-5 to 17-2-11, Interior(1) 17-2-11 to 17-10-8, Exterior(2) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
- This truss requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



November 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss B1GE	Truss Type GABLE	Qty 1	Ply 1	WAG-6	148882267
-----------------	---------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:54 2021 Page 1

ID:5rgN_xy4f48WjeyOz7elXzss6w-J0hh?8Y1YYh?FDhqREH1EVFTYsLO9FTfuNr6LrYHh1?

-0-10-8 3-10-4 5-5-13 7-0-4 12-11-12 14-6-3 16-1-12 20-0-0 20-10-8
0-10-8 3-10-4 1-7-9 1-6-7 5-11-8 1-6-7 1-7-9 3-10-4 0-10-8

Scale = 1:68.8

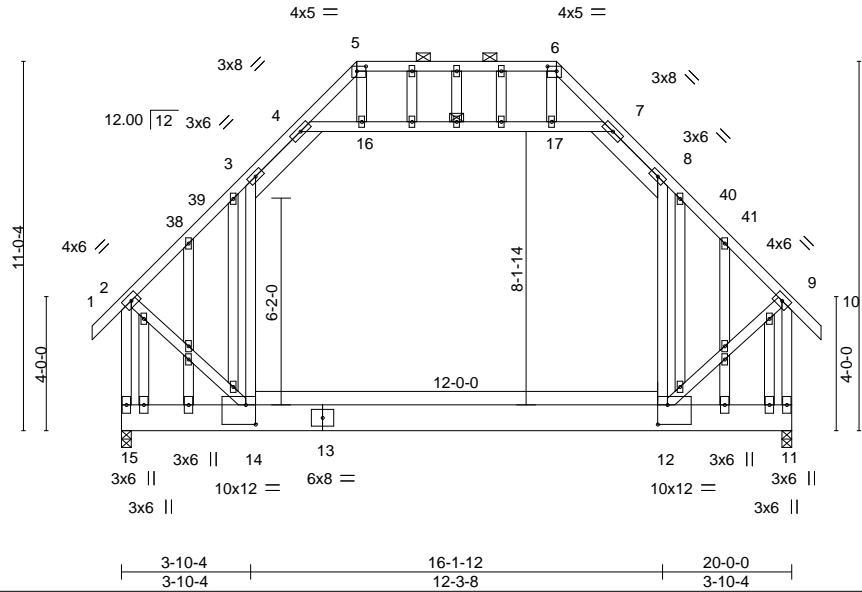


Plate Offsets (X,Y)-- [5:0-3-4,0-1-12], [6:0-3-4,0-1-12], [12:0-3-8,0-7-0], [14:0-3-8,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.78	Vert(LL) -0.18	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.23	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.00	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Attic -0.13	12-14	1099	360		
							Weight: 243 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4,7-8: 2x6 SP No.1
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.2 *Except*
2-14,9-12,5-16,6-17: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-7

REACTIONS.

(size) 15=0-3-8, 11=0-3-8
Max Horz 15=-175(LC 8)
Max Uplift 15=-24(LC 10), 11=-24(LC 11)
Max Grav 15=1171(LC 2), 11=1171(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-946/112, 3-4=-669/179, 4-5=-452/117, 5-6=-322/90, 6-7=-452/117, 7-8=-669/179,
8-9=-946/112, 2-15=-1342/109, 9-11=-1342/109
BOT CHORD 12-14=-28/616
WEBS 3-14=-195/392, 4-16=-569/148, 16-17=-564/150, 7-17=-569/148, 8-12=-195/392,
2-14=-50/822, 9-12=-50/822

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-5, Exterior(2) 2-9-5 to 17-2-11, Interior(1) 17-2-11 to 17-10-8, Exterior(2) 17-10-8 to 20-10-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-16, 16-17, 7-17
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-14
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 11.
- This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



November 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



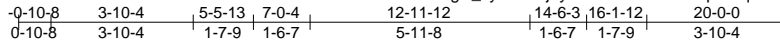
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss B2	Truss Type ATTIC	Qty 2	Ply 1	WAG-6	I48882268
-----------------	-------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:56 2021 Page 1

ID:5rgN_xy4f48WjeyOz?elXzss6w-FOpRQqal49xjUxRcYfLVJwKpsg0rd8xyLhKDOKyHhHz



Scale = 1:62.4

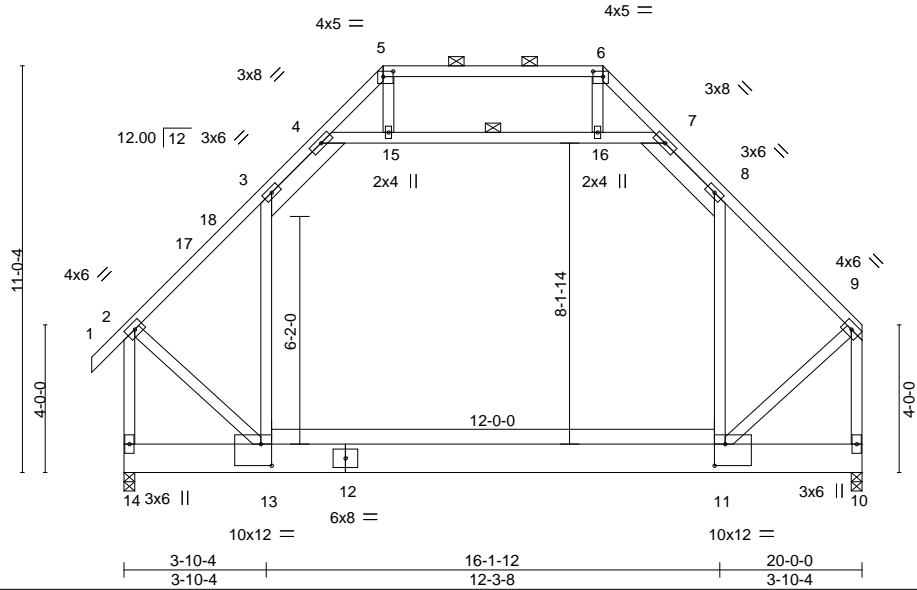


Plate Offsets (X,Y)-- [5:0-3-4,0-1-12], [6:0-3-4,0-1-12], [11:0-3-8,0-7-0], [13:0-3-8,0-7-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.79	Vert(LL)	-0.19 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT)	-0.24 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT)	0.00 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Attic	-0.13 11-13	1098	360		
							Weight: 194 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
3-4,7-8: 2x6 SP No.1
BOT CHORD 2x10 SP No.2
WEBS 2x4 SP No.2 *Except*
2-13,9-11,5-15,6-16: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-7

REACTIONS.

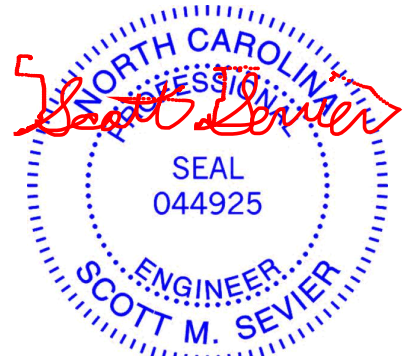
(size) 14=0-3-8, 10=0-3-8
Max Horz 14=168(LC 9)
Max Uplift 14=22(LC 10), 10=17(LC 10)
Max Grav 14=1172(LC 2), 10=1119(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-948/104, 3-4=-670/174, 4-5=-449/117, 5-6=-319/91, 6-7=-458/118, 7-8=-670/176,
8-9=-947/95, 2-14=-1344/97, 9-10=-1294/82
BOT CHORD 11-13=-35/608
WEBS 3-13=-194/393, 4-15=-571/142, 15-16=-567/145, 7-16=-571/142, 8-11=-200/386,
2-13=-47/823, 9-11=-58/813

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 2-9-5, Exterior(2) 2-9-5 to 19-10-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Ceiling dead load (5.0 psf) on member(s). 3-4, 7-8, 4-15, 15-16, 7-16
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 11-13
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.
- 9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



November 22,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss B3	Truss Type ATTIC	Qty 1	Ply 1	WAG-6	Job Reference (optional) I48882269
-----------------	-------------	---------------------	----------	----------	-------	---------------------------------------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:57 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzss6w-jbNpeAawrT3a6hQP6Nks8t_Y3M3MbA5aL3mwmYHhHy

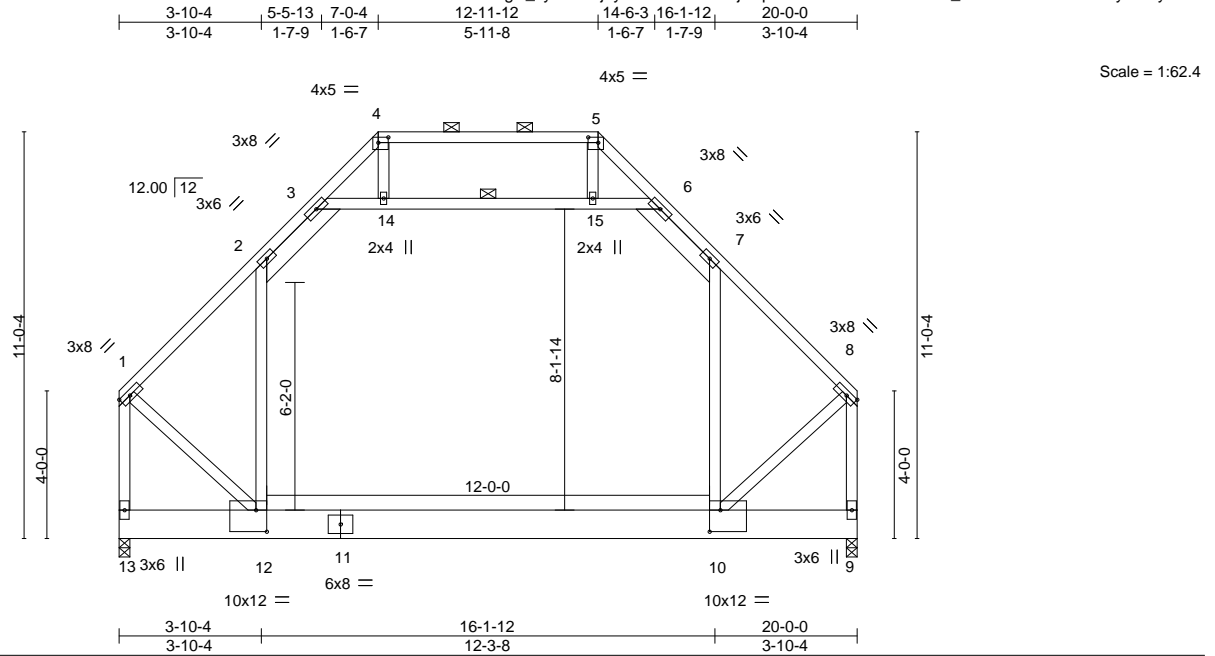


Plate Offsets (X,Y)--		[1:0-3-7,Edge], [4:0-3-4,0-1-12], [5:0-3-4,0-1-12], [8:0-3-7,Edge], [10:0-3-8,0-7-0], [12:0-3-8,0-7-0]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.79	Vert(LL)	-0.19 10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.69	Vert(CT)	-0.24 10-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.34	Horz(CT)	0.00 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Attic	-0.13 10-12	1097	360	Weight: 193 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3,6-7: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 1-12,8-10,4-14,5-15: 2x4 SP No.3	WEBS 1 Row at midpt 3-6

REACTIONS. (size) 13=0-3-8, 9=0-3-8
 Max Horz 13=153(LC 8)
 Max Uplift 13=13(LC 11), 9=13(LC 10)
 Max Grav 13=1120(LC 2), 9=1120(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-949/86, 2-3=-671/171, 3-4=-455/118, 4-5=-316/92, 5-6=-455/118, 6-7=-671/171,
 7-8=-949/86, 1-13=-1296/70, 8-9=-1296/70
 BOT CHORD 10-12=-32/609
 WEBS 2-12=-200/388, 3-14=-574/137, 14-15=-570/139, 6-15=-574/137, 7-10=-200/388,
 1-12=-55/815, 8-10=-55/815

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-14, 14-15, 6-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 9.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



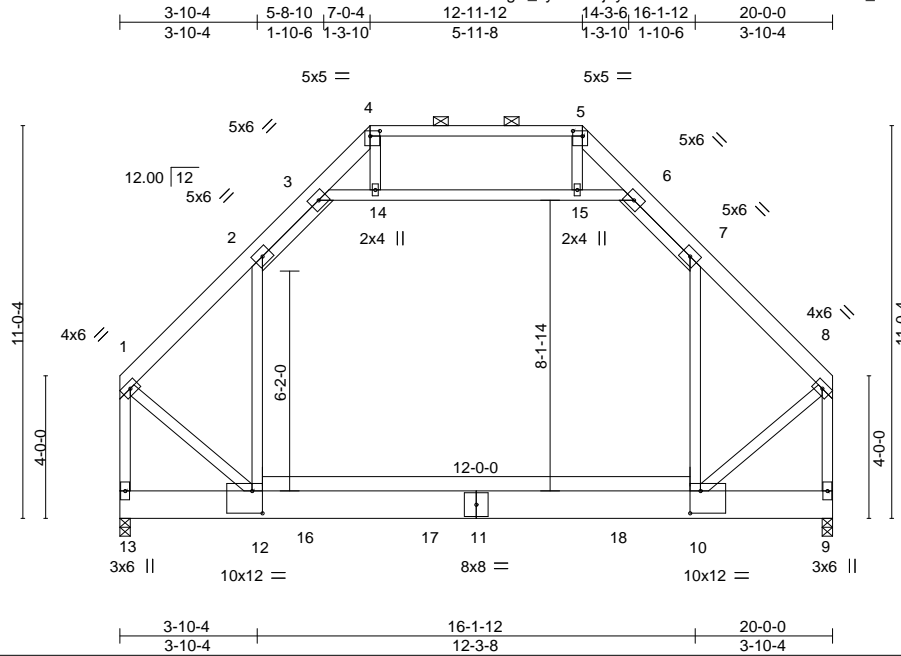
November 22, 2021

Job 21114533	Truss B4GR	Truss Type ATTIC	Qty 1	Ply 3	WAG-6	148882270
-----------------	---------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:59 2021 Page 1

ID:5rgN_xy4f48WjeyOz?elXzss6w-fzVa3scAM4KHL_anDouCxZyNGt5yqUCO1fYt?fyHhHw



Scale = 1:64.7

Plate Offsets (X,Y)-- [4:0-3-4,0-1-12], [5:0-3-4,0-1-12], [10:0-3-8,0-7-8], [12:0-3-8,0-7-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.17	10-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.24	10-12	>997	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Horz(CT) 0.00	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MSH	Attic -0.12	10-12	1180	360		
							Weight: 610 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-4,5-8: 2x6 SP No.1
BOT CHORD 2x10 SP DSS
WEBS 2x4 SP No.2 *Except*
1-12,8-10,4-14,5-15: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 13=0-3-8, 9=0-3-8
Max Horz 13=-155(LC 6)
Max Uplift 13=-564(LC 9), 9=-484(LC 8)
Max Grav 13=4006(LC 17), 9=3577(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-3738/600, 2-3=-1869/330, 3-4=-131/410, 4-5=-141/750, 5-6=-160/358,
6-7=-1893/335, 7-8=-3693/592, 1-13=-5069/778, 8-9=-5017/768
BOT CHORD 10-12=-366/2381
WEBS 2-12=-441/2464, 3-14=-3088/618, 14-15=-3081/619, 6-15=-3093/619, 7-10=-423/2367,
1-12=-492/3176, 8-10=-495/3192

NOTES-

- 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-5-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.33 plate grip DOL=1.33
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Ceiling dead load (5.0 psf) on member(s). 2-3, 6-7, 3-14, 14-15, 6-15
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=564, 9=484.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1810 lb down and 341 lb up at 5-1-8, and 1810 lb down and 341 lb up at 8-7-8, and 1810 lb down and 341 lb up at 13-11-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

Continued on back for L/360 deflection.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss B4GR	Truss Type ATTIC	Qty 1	Ply 3	WAG-6 Job Reference (optional)	I48882270
-----------------	---------------	---------------------	----------	-----------------	-----------------------------------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:34:59 2021 Page 2
ID:5rgN_xy4f48WjeyOz?eiXzss6w-fzVa3scAM4KHL_anDouCxZyNGt5yqUCO1fyHhHw

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-70, 3-4=-60, 4-5=-60, 5-6=-60, 6-7=-70, 7-8=-60, 9-13=-20, 3-6=-10
Concentrated Loads (lb)
Vert: 16=-1015(F) 17=-1015(F) 18=-1015(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



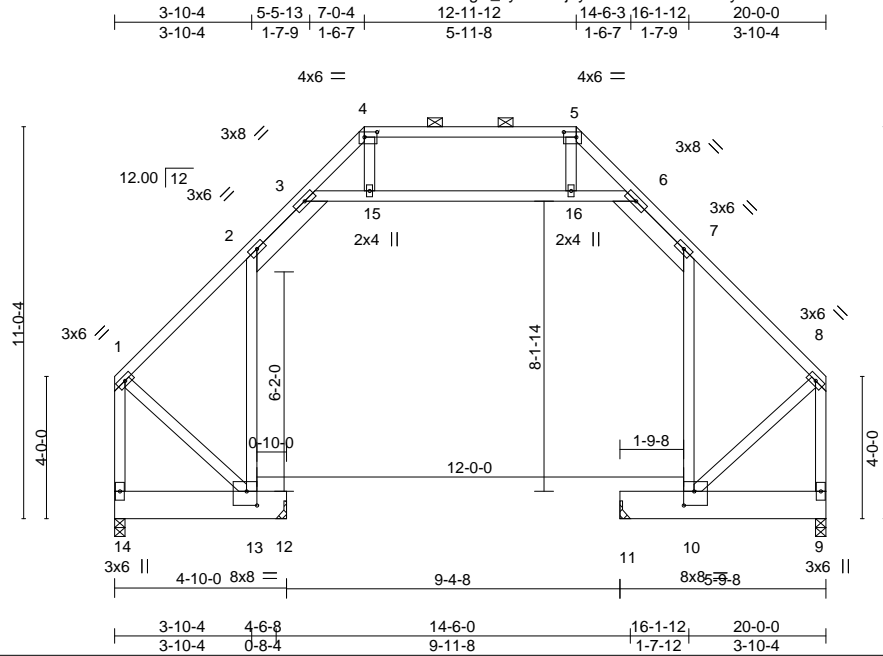
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss B5	Truss Type ATTIC	Qty 3	Ply 1	WAG-6	Job Reference (optional) I48882271
-----------------	-------------	---------------------	----------	----------	-------	---------------------------------------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:00 2021 Page 1

ID:5rgN_xy4f48WjeyOz?eiXzzss6w-893yGCdo7OS8z89znVPRUmVTCHRYZvEYGJIQX5yHhHv



Scale = 1:64.8

Plate Offsets (X,Y)-- [4:0-4-4,0-1-12], [5:0-4-4,0-1-12], [10:0-3-8,0-4-12], [13:0-3-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.89	Vert(LL) -0.02	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.03	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.27	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS					Weight: 156 lb	FT = 20%

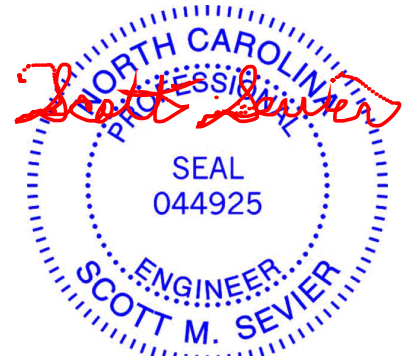
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 2-3,6-7: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x10 SP No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 1-13,8-10,4-15,5-16: 2x4 SP No.3	

REACTIONS. All bearings 0-3-8 except (jt=length) 12=Mechanical, 11=Mechanical.
 (lb) - Max Horz 14=153(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 11 except 14=220(LC 11), 12=360(LC 7), 9=121(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) except 14=349(LC 19), 12=746(LC 18), 9=334(LC 1), 11=618(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-219/258, 2-3=-339/219, 3-4=-680/206, 4-5=-591/211, 5-6=-676/234, 6-7=-337/219,
 1-14=-301/286
 WEBS 2-13=-673/299, 3-15=-227/614, 15-16=-228/621, 6-16=-224/613, 7-10=-658/166

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 14=220, 12=360, 9=121.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



November 22, 2021

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss B5	Truss Type ATTIC	Qty 3	Ply 1	WAG-6 Job Reference (optional)	148882271
-----------------	-------------	---------------------	----------	----------	-----------------------------------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:00 2021 Page 2
ID:5rgN_xy4f48WjeyOz?eiXzzss6w-893yGCdo7OS8z89znVPRUmVTCHRYZvEYGJIQX5yHhHv

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-70(F=-10), 3-4=-60, 4-5=-60, 5-6=-60, 6-7=-70(F=-10), 7-8=-60, 13-14=-20, 12-13=-100, 3-6=-20(F), 10-11=-100(F=-80), 9-10=-20

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



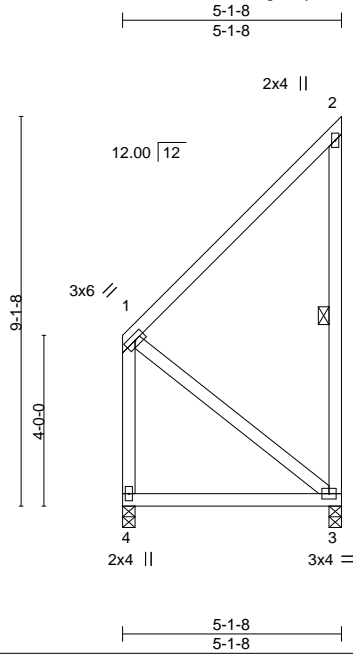
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss M1	Truss Type Monopitch	Qty 1	Ply 1	WAG-6	148882272
-----------------	-------------	-------------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:01 2021 Page 1

ID:5rgN_xy4f48WjeyOz?elXzzss6w-cMcKTXeQuha?blKALCxcg0_1kZhpHISNhVz1_3XyHhHu



Scale = 1:54.0

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.03 3-4 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.29	Vert(CT) -0.07 3-4 >886 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS		Weight: 45 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 2-3

REACTIONS.

(size) 4=0-3-8, 3=0-3-8
 Max Horz 4=166(LC 10)
 Max Uplift 3=249(LC 10)
 Max Grav 4=239(LC 19), 3=249(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 3=249.
- 5) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss PB1	Truss Type GABLE	Qty 20	Ply 1	WAG-6	148882273
-----------------	--------------	---------------------	-----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:03 2021 Page 1
ID:5rgN_xy4f48WjeyOz?elXzss6w-Ykk4uDfhQJqjctYSdz85P78nUX0mNn_yHW48QyHhHs

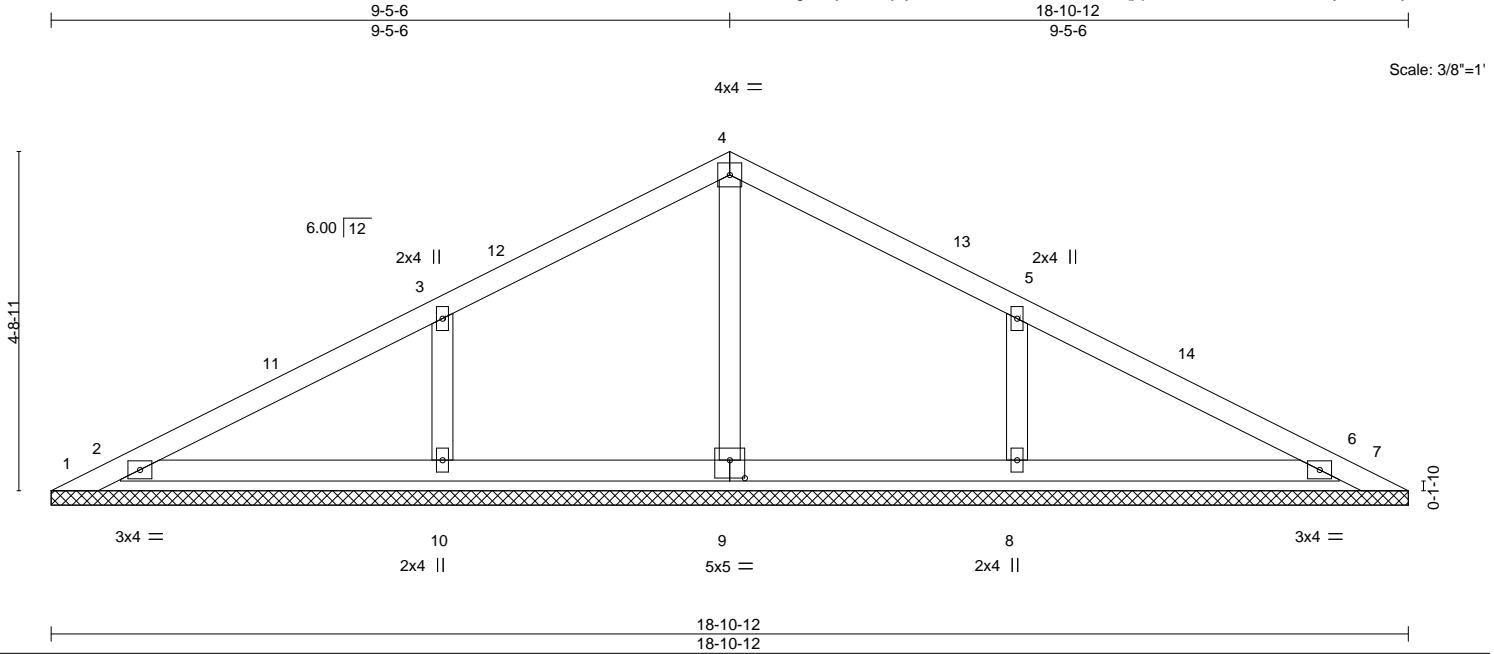


Plate Offsets (X,Y)--	[9:0-2-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 69 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-10-12.
(lb) - Max Horz 1=68(LC 15)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=124(LC 1), 7=124(LC 1), 2=103(LC 10), 10=109(LC 10), 8=108(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 2=356(LC 1), 9=259(LC 1), 10=375(LC 21), 8=375(LC 22), 6=356(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-280/222, 5-8=-280/222

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 6-5-6, Corner(3) 6-5-6 to 12-5-6, Exterior(2) 12-5-6 to 15-6-13, Corner(3) 15-6-13 to 18-6-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=124, 7=124, 2=103, 10=109, 8=108.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



Job 21114533	Truss PB1GE	Truss Type GABLE	Qty 2	Ply 1	WAG-6	148882274
-----------------	----------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:05 2021 Page 1
 ID:5rgN_xy4f48WjeyOz?elXzzss6w-U7srJvhxyw4R3v1xa2?cAqCX8IFNElrHQb?BDJyHhHq

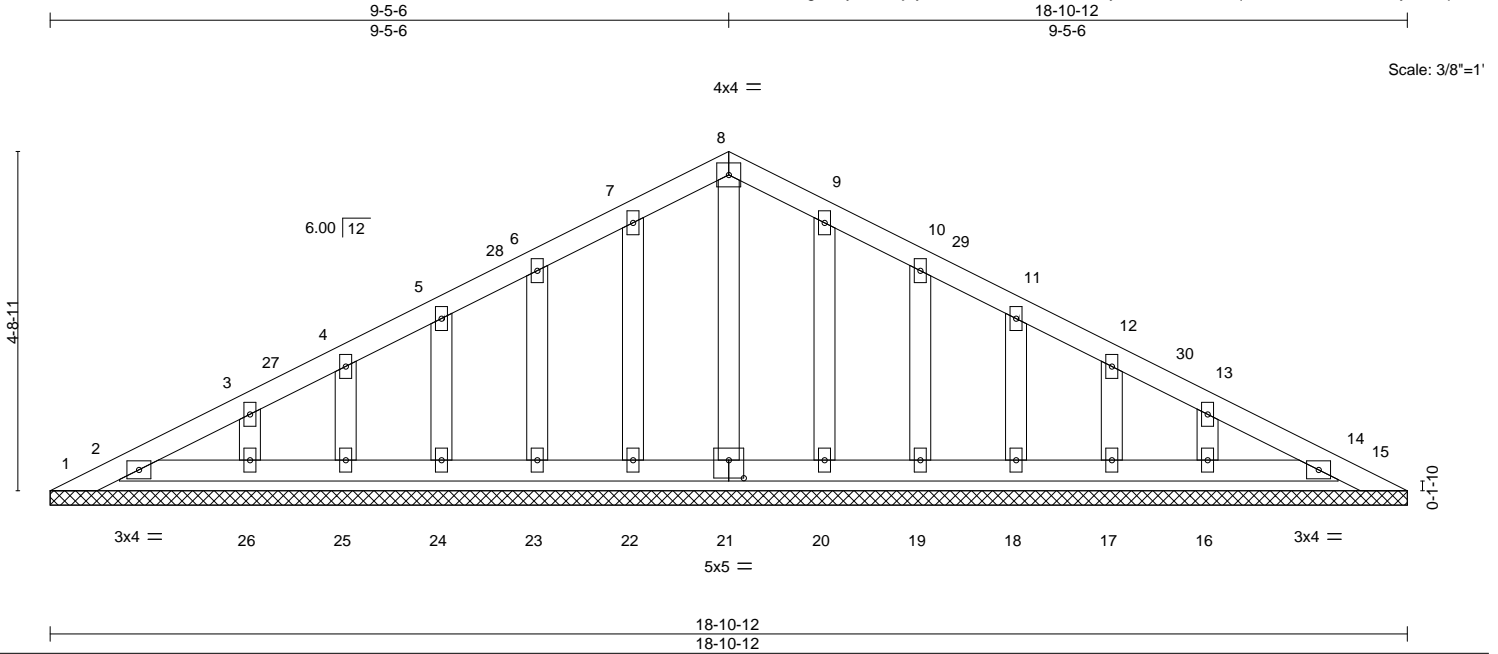


Plate Offsets (X,Y)-- [21:0-2-8-0-3-0]		CSI.		DEFL.				PLATES	GRIP
LOADING (psf)	SPACING- 2-0-0	TC	0.05	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL 1.15	BC	0.02	Vert(LL)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB	0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S		Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2015/TPI2014							Weight: 93 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-10-12.
 (lb) - Max Horz 1=68(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14
 Max Grav All reactions 250 lb or less at joint(s) 1, 15, 2, 21, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-15 to 3-3-15, Exterior(2) 3-3-15 to 6-5-6, Corner(3) 6-5-6 to 12-5-6, Exterior(2) 12-5-6 to 15-6-13, Corner(3) 15-6-13 to 18-6-13 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 22, 23, 24, 25, 26, 20, 19, 18, 17, 16, 14.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

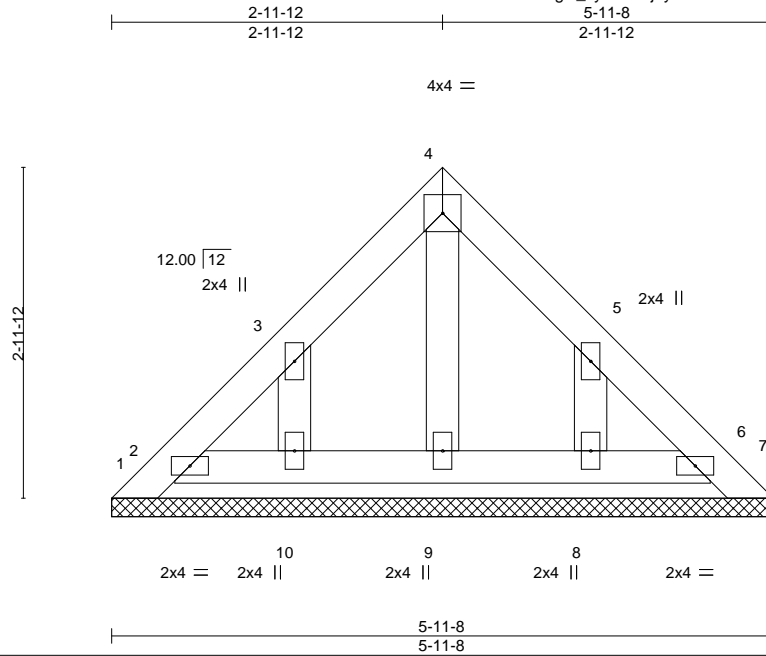


818 Soundside Road
 Edenton, NC 27932

Job 21114533	Truss PB2	Truss Type GABLE	Qty 1	Ply 1	WAG-6	148882275
-----------------	--------------	---------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:06 2021 Page 1
ID:5rgN_xy4f48WjeyOz?elXzzss6w-yJQDXFhZJECIh3c78mWrfj1iDhbmzi8QeFillyHhHp



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 26 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-11-8.
(lb) - Max Horz 1=61(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 6, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Bearing at joint(s) 1, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 6, 10, 8.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

ENGINEERING BY
TRENCO
A MiTek Affiliate

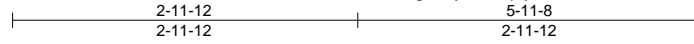
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss PB3	Truss Type Piggyback	Qty 11	Ply 1	WAG-6	148882276
-----------------	--------------	-------------------------	-----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:07 2021 Page 1

ID:5rgN_xy4f48WjeyOz?eiXzzss6w-QW_bkbiBUXK9JDBKhT14GFHsS5wHiCcatvUIHByHhHo



Scale = 1:19.9

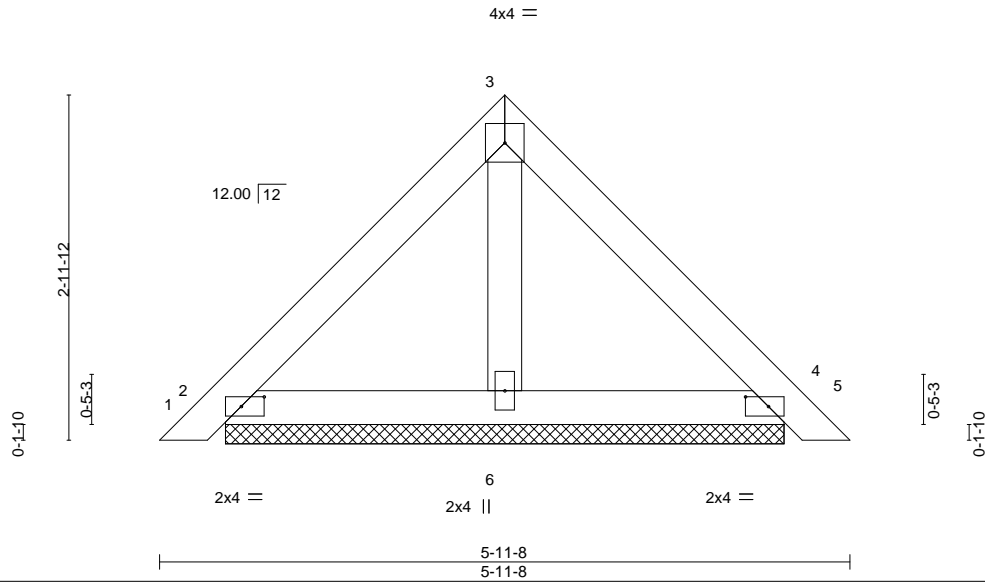


Plate Offsets (X,Y)--	[2:0-2-6,0-1-0], [4:0-2-6,0-1-0]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) 0.00	5	n/r	90		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 23 lb	FT = 20%
	Code IRC2015/TPI2014							

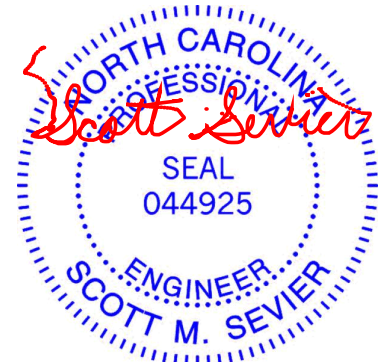
LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-9-14, 4=4-9-14, 6=4-9-14
Max Horz 2=61(LC 8)
Max Uplift 2=31(LC 11), 4=36(LC 11)
Max Grav 2=140(LC 1), 4=140(LC 1), 6=150(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 22, 2021

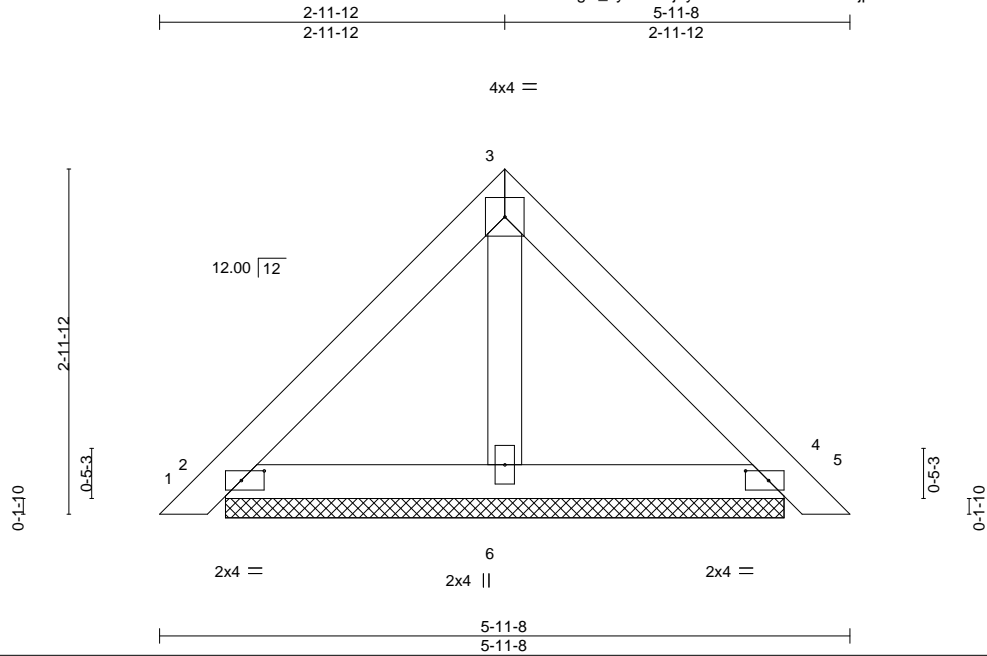
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss PB4	Truss Type PIGGYBACK	Qty 1	Ply 3	WAG-6	Job Reference (optional) I48882277
-----------------	--------------	-------------------------	----------	----------	-------	---------------------------------------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:08 2021 Page 1
ID:5rgN_xy4f48WjeyOz?eiXzzss6w-viXzxxjpFrS0wNmWFAZJoSq2WVG7Rf4j6ZErpdyHhHn



Scale = 1:19.9

Plate Offsets (X,Y)-- [2:0-2-6,0-1-0], [4:0-2-6,0-1-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	0.00	5	n/r		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 69 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-9-14, 4=4-9-14, 6=4-9-14
Max Horz 2=-61(LC 8)
Max Uplift 2=-31(LC 11), 4=-36(LC 11)
Max Grav 2=140(LC 1), 4=140(LC 1), 6=150(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 3-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

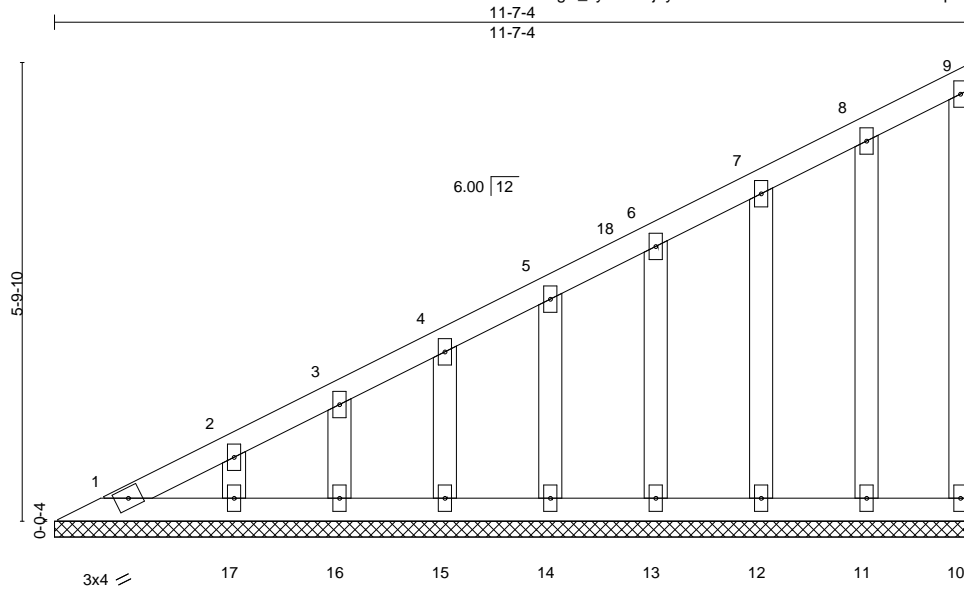


818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss V1	Truss Type GABLE	Qty 1	Ply 1	WAG-6	Job Reference (optional) I48882278
-----------------	-------------	---------------------	----------	----------	-------	---------------------------------------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:09 2021 Page 1
ID:5rgN_xy4f48WjeyOz?eiXzzss6w-Nu5M9HkR09atYXLipu4YLgNDMvclA6qslDzPM4yHhHm



Scale = 1:29.1

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT) -0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 70 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-7-4.
(lb) - Max Horz 1=187(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 12, 13, 14, 15, 16, 17
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 11, 12, 13, 14, 15, 16, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-7-9 to 3-7-4, Interior(1) 3-7-4 to 7-2-9, Exterior(2) 7-2-9 to 11-5-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) All plates are 2x4 MT20 unless otherwise indicated.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 11, 12, 13, 14, 15, 16, 17.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

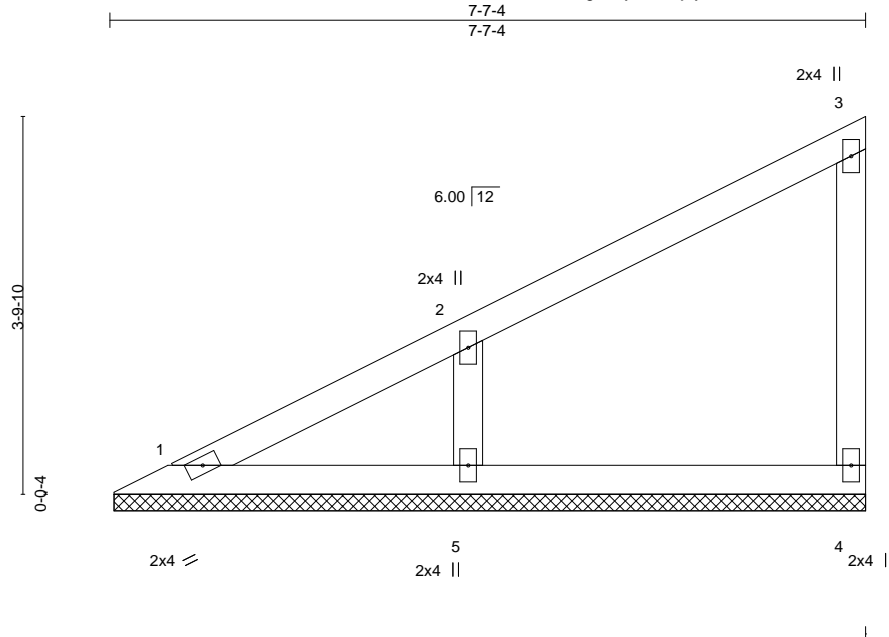
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss V2	Truss Type Valley	Qty 1	Ply 1	WAG-6	148882279
-----------------	-------------	----------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:10 2021 Page 1
ID:5rgN_xy4f48WjeyOz?eiXzss6w-r5fkMcl4nSikAgwuNbnnttLWJx?vYS0ZijyuWyHhHI



Scale = 1:23.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 29 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-6-12, 4=7-6-12, 5=7-6-12
Max Horz 1=118(LC 10)
Max Uplift 4=-35(LC 10), 5=-100(LC 10)
Max Grav 1=78(LC 1), 4=123(LC 1), 5=346(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-259/216

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

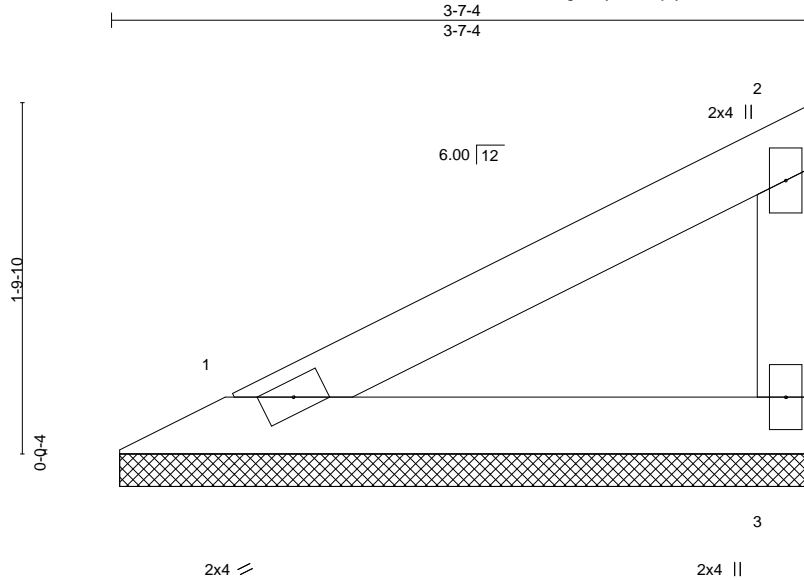


818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss V3	Truss Type Valley	Qty 1	Ply 1	WAG-6	148882280
-----------------	-------------	----------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:10 2021 Page 1
ID:5rgN_xy4f48WjeyOz?elXzss6w-r5fkMcl4nSikAgwuNbbntvMQJxUvZf0ZtjyWYhHl



Scale = 1:11.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 12 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-6-12, 3=3-6-12
Max Horz 1=49(LC 10)
Max Uplift 1=8(LC 10), 3=33(LC 10)
Max Grav 1=113(LC 1), 3=113(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



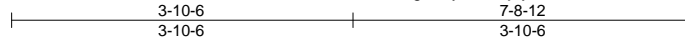
818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss V4	Truss Type Valley	Qty 1	Ply 1	WAG-6	148882281
-----------------	-------------	----------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

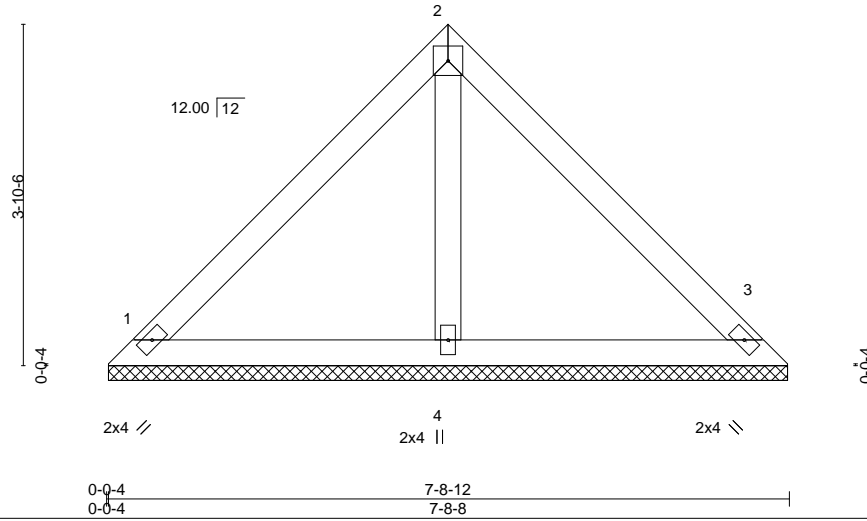
8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:11 2021 Page 1

ID:5rgN_xy4f48WjeyOz?eiXzzss6w-JHD6ayliYmqanqV5wJ60Q5SVCiHAe0I9oXSVQyyHhHk



4x4 =

Scale = 1:26.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 31 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-8-4, 3=7-8-4, 4=7-8-4
Max Horz 1=77(LC 7)
Max Uplift 1=-40(LC 11), 3=-40(LC 11)
Max Grav 1=170(LC 1), 3=170(LC 1), 4=223(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - Gable requires continuous bottom chord bearing.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

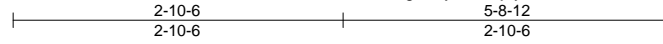


818 Soundside Road
Edenton, NC 27932

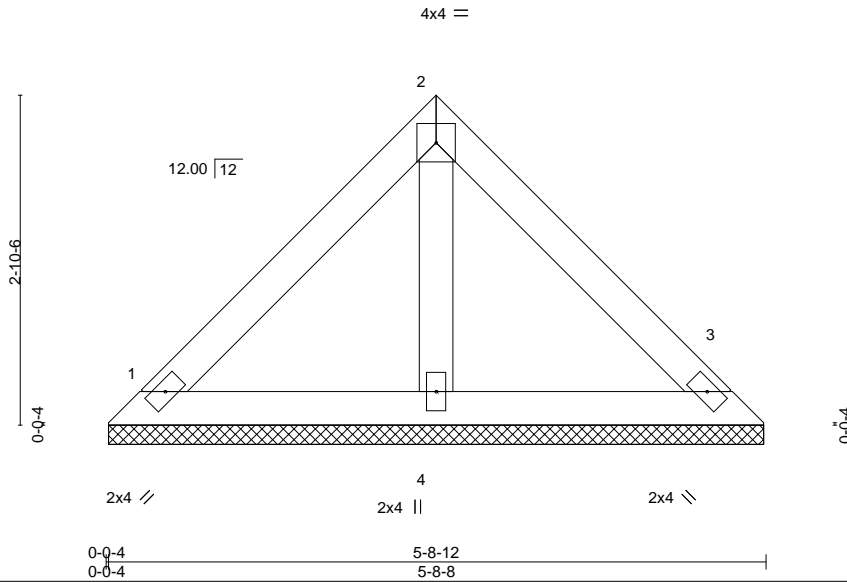
Job 21114533	Truss V5	Truss Type Valley	Qty 1	Ply 1	WAG-6	I48882282
-----------------	-------------	----------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:12 2021 Page 1
ID:5rgN_xy4f48WjeyOz?elXzss6w-nTnUnImKJ4yRP_3HU0dFzI_i56dMNTpJ1BC3yPyHhHj



Scale = 1:20.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 22 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-8-4, 3=5-8-4, 4=5-8-4
Max Horz 1=55(LC 7)
Max Uplift 1=-28(LC 11), 3=-28(LC 11)
Max Grav 1=121(LC 1), 3=121(LC 1), 4=159(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



November 22, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

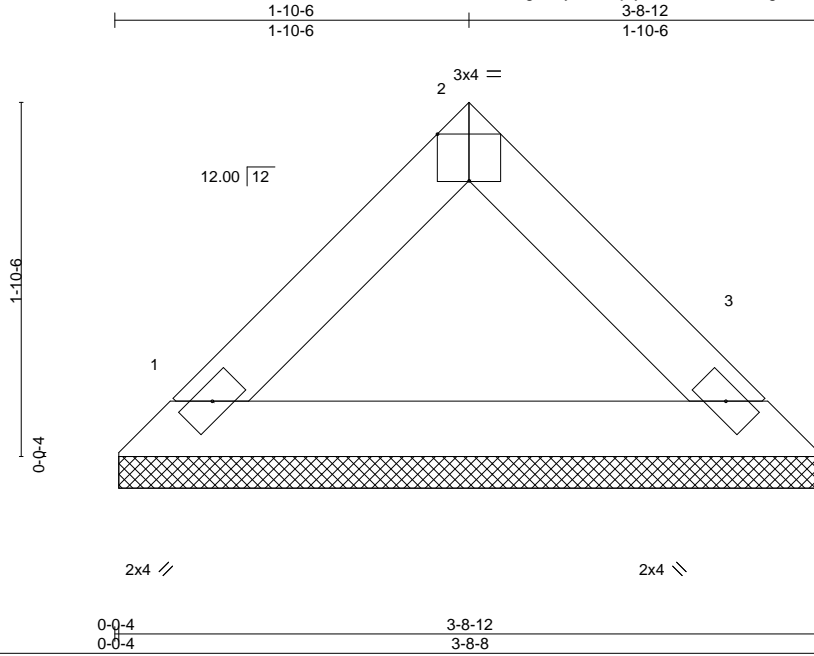


818 Soundside Road
Edenton, NC 27932

Job 21114533	Truss V6	Truss Type Valley	Qty 1	Ply 1	WAG-6	148882283
-----------------	-------------	----------------------	----------	----------	-------	-----------

The Building Center, Gastonia, NC - 28052,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Nov 19 07:35:13 2021 Page 1
ID:5rgN_xy4f48WjeyOz?elXzzss6w-FgLs?eny3N4I18eT2k8UvWvCWzw6wOSFrxcVryHhHi



Scale = 1:12.1

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999	Weight: 12 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code IRC2015/TPI2014	YES	Matrix-P									

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-8-12 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-4, 3=3-8-4
 Max Horz 1=-33(LC 6)
 Max Uplift 1=-11(LC 11), 3=-11(LC 11)
 Max Grav 1=121(LC 1), 3=121(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

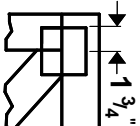
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.33 plate grip DOL=1.33
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



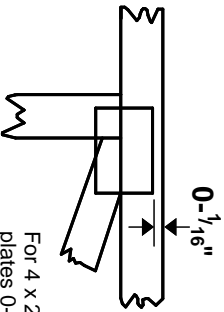
November 22, 2021

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



This symbol indicates the required direction of slots in connector plates.

* Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE

4 X 4

The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



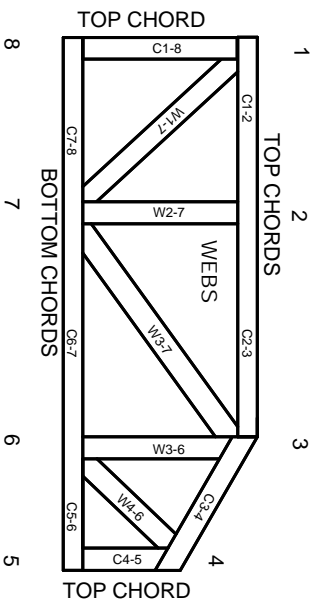
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate
BCSI: Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



JOINTS ARE GENERALLY NUMBERED/LETTERED CLOCKWISE AROUND THE TRUSS STARTING AT THE JOINT FARTHEST TO THE LEFT.

CHORDS AND WEBS ARE IDENTIFIED BY END JOINT NUMBERS/LETTERS.

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988
ER-3907, ESR-2362, ESR-1397, ESR-3282

Trusses are designed for wind loads in the plane of the truss unless otherwise shown.

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

© 2012 MITteK® All Rights Reserved



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Rewriting pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.